

**METHOD AND APPARATUS FOR FREQUENCY CORRECTION IN WIRELESS LOCAL
AREA NETWORK SYSTEMS**

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Abstract of the Disclosure

A method and apparatus for frequency correction of a signal in a wireless local area network (WLAN) communication system is disclosed. The signal is processed to determine a frequency offset estimate which is a frequency deviation 10 of the signal from a local oscillator. The signal is then shifted by an amount corresponding to a frequency correction estimate where the frequency correction estimate is an averaged value of the frequency offset estimate and at least one prior frequency offset estimate. Finally, the frequency correction estimate is utilized to correct signals in the WLAN communication system.